

J. F. BAPTEROSSES.
Manufacture of Buttons, &c.

No. 146,223.

Patented Jan. 6, 1874.

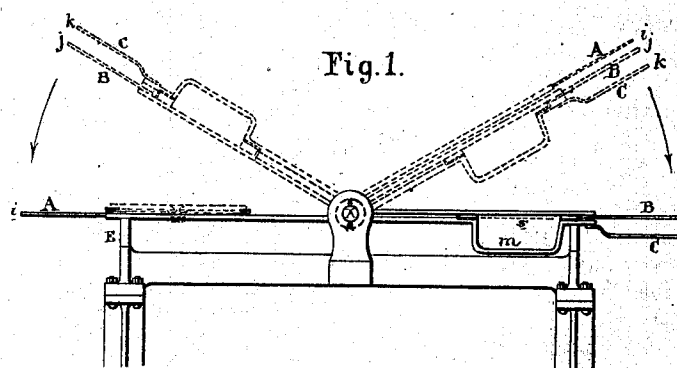


Fig. 2.

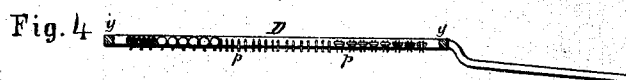
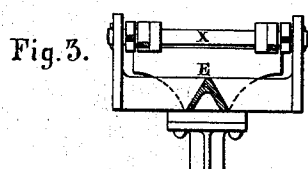
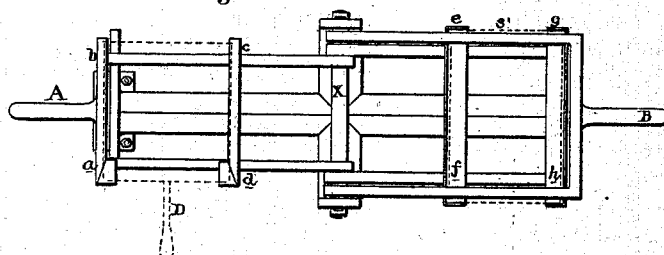
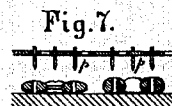
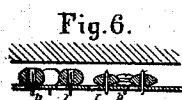
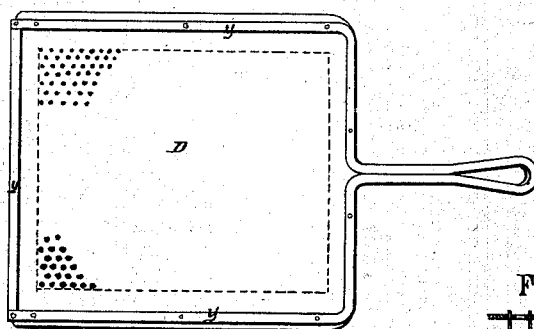


Fig. 5.



Witnesses:
Ed. Allen
Fred. Benjamin



J. F. Bapterosses
By his attys
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UNITED STATES PATENT OFFICE.

JEAN FELIX BAPTEROSSES, OF PARIS, FRANCE.

IMPROVEMENT IN THE MANUFACTURE OF BUTTONS, &c.

Specification forming part of Letters Patent No. **146,223**, dated January 6, 1874; application filed September 23, 1872.

To all whom it may concern:

Be it known that I, JEAN FELIX BAPTEROSSES, of Paris, France, have invented certain Improvements in the Manufacture of Buttons, Pearls, Beads, and other objects of ceramic matter, of which the following is a specification:

My invention consists of certain improvements, fully described hereafter, in the manufacture of buttons, imitation pearls, beads, and other objects of ceramic matter.

In the accompanying drawing I have represented, at L, B, P, and S, specimens of objects to the manufacture of which my invention relates.

Figures 1, 2, 3, 4, 5, 6, and 7 are views of the apparatus used in the preparatory operations for baking buttons and similar objects.

The frame D, Figs. 4 and 5, for receiving the buttons or pearls, consists of a rectangular plate of sheet-steel, supported by a rigid edging, *y*, also of steel, and provided with a handle. Upon this steel plate are screwed a series of small pins or knobs, *p*, of a diameter and height less than those of the buttons or pearls which they are to receive. The axes of these knobs are placed with the most absolute precision in positions identical to those of the punches by which the buttons and pearls are struck or molded in the corresponding preparatory machine. Lateral slots and marks are formed on the said machine to allow the knobbed frame D to be brought into perfect exactitude underneath the machine and the objects, so that the latter may be deposited upon the plate by the pressure of the upper punches, as above mentioned, and the whole of them brought onto the corresponding knobs of the said plate, the buttons or pearls, in other words, being strung upon the knobs like the ball of a "cup and ball" upon its point. (See Figs. 6 and 7.) The plate D, with the molded objects contained thereon, can, without any change or alteration of the said objects, be transported from the pressing-room to the baking-room.

For placing the buttons or pearls on the baking-plates, I use the following apparatus: Three frames, A B C, furnished with handles, have a vibrating movement upon an axis, X, Figs. 1 and 2, secured to a metal support,

having, at the level of this axis, two horizontal stops, E, which allow the said frames, when turned over to either side, to be supported horizontally. The frame A has two slides, *a b* and *c d*, Fig. 2, with an entrance at *a* and *d*, and stops at *b* and *c*, into which slides the frame D, with its buttons or pearls, is introduced. The frame C has two supports, *e f* and *g h*, Fig. 2, to maintain laterally the refractory plate *s'*, (shown in dotted lines,) which, coming from the furnace, is placed hot upon these supports by means of a metal fork, which can easily pass into the space made by the bent or elbowed form given to the frame C at *m*. The frame B, which is simply rectangular and flat, is laid upon the frame A at the left-hand side of Figs. 1 and 2, and thus presents no impediment to the introduction of the knobbed frame D. The frame C is next laid upon the frame B; or the attendant may take in the same hand the two handles *j* and *k* of the frames B and C, and, holding them tightly, lay them upon the frame A, bearing the knobbed frame. He then seizes the third handle *i*, and turns the whole arrangement upon the axis from left to right. The knobbed frame is thus reversed, and the buttons or pearls rest on their bases upon the refractory baking-plate *s'*, or, rather, the buttons on their bases, and the pearls or beads upon the slightly-flattened end of their axes. The attendant, taking together the handles *i* and *j* only, lifts the frames A and B, when the refractory plate *s'*, with the buttons, &c., which have been transferred onto the same, is raised freely by the fork which carries it and put in the furnace. The knobbed frame, stripped of its buttons, is then replaced by another loaded with new objects, and the operator recommences.

I would remark that the sheet metal of the knobbed frame is hollowed out or recessed, as shown at *r*, Figs. 6 and 7, so as to diminish its weight.

It will be understood that the operation is identical, whether buttons or pearls are operated upon, and the spacing of the knobs varies only to correspond to the holes in the objects which are to fit them.

I claim as my invention—

1. The frame D, constructed with a number of pins or knobs, p , and adapted for the reception and retention, in any given position, of a number of buttons, beads, or other molded objects prior to the baking of the same.

2. The frame C, for supporting the refractory plate s' , in combination with the plate D and the devices for retaining the same, as specified.

3. The combination, substantially as described, of the frame D and plate of refrac-

tory material, s' , with plates A, B, and C, arranged to be turned upon the same axis X, Figs. 1, 2, and 3.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JEAN FELIX BAPTEROSSES.

Witnesses:

EDMOND THIBAUT, Jr.,
EMILE RICHARD.